

#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

# OPPTS/OPP/RD/TRB/PRODUCT CHEMISTRY TEAM WASHINGTON, D.C. 20460

### **DATE: 25/JUL/2001**

SUBJECT: PRODUCT CHEMISTRY REVIEW OF MP [ ] EP [X]

DP BARCODE No.: <u>D275563</u> REG./File Symbol: 9404-IT

PRODUCT NAME: Permethrin 0.25% Insecticide Granules

COMPANY:

Sunniland Corp.

FROM:

Linda L. Kutney, Chemist

**Product Chemistry Team** 

Technical Review Branch/RD (7505C)

7/25/01

TO:

Arnold Layne, Linda Gerber PM 3

Insecticide Branch/RD(7505C)

### **INTRODUCTION**

The Sunniland Corp. has sent (in a letter dated 6/4/01) a me-too registration request for their insecticide, <u>Permethrin 0.25% Insecticide Granules</u>, based on its reported similarity to Micro Flo Company's (now <u>Aventis Corporation's</u>) Permethrin 0.25% Granules, Reg. No. 51036-322.

The proposed CSF for Sunniland's Permethrin 0.25% Insecticide Granules contains pure permethrin a.i. which is a source of the nominal 0.25% permethrin in the proposed end-use product. Product chemistry data supplied in support of this request have been assigned MRID number 452546-01. The intended use of Permethrin 0.25% Insecticide Granules is a non-food use on residential lawns, ornamentals, recreational turf and golf courses.



## PRODUCT INGREDIENT SOURCE INFORMATION IS NOT INCLUDED

### **FINDINGS**

•	The Agency was informed, in a 6/4/01 FAX of a letter	er from consultants H. R. McLane.
	Inc., that has agreed to support this registration	on request for Permethrin 0.25%
	Insecticide Granules, partly because	is the a.i. source.

- The densities, pH's, and flash points/flame extensions of <u>Permethrin 0.25% Insecticide</u> <u>Granules</u> are essentially identical to <u>Permethrin 0.25% Granules</u>, Reg. No. 51036-322."
- The Physical or Chemical Hazard statements on the proposed label for <u>Permethrin 0.25%</u> <u>Insecticide Granules</u> are appropriate with respect to its flammability and satisfy the requirements specified in 40 CFR 156.10 (h)(2)(iii).
- The analytical method requirement (40 CFR 158.180) has been previously satisfied.

### **CONCLUSIONS:**

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TRB has reviewed this submission and concluded that Sunniland Corporation's Permethrin 0.25% Insecticide Granules can not be declared substantially similar to Avenis's Product, <u>Permethrin 0.25% Granules</u>, Reg. No. 51036-322, until the deficiencies *italicized* below are adequately addressed and submitted to the Agency for additional consideration.:

- The proposed storage and disposal instructions must be revised to correctly spell out,
   "Store product in original container in a locked cool, dry storage area out of <u>reach</u> of <u>children</u> and pets " in accordance with PR 83-3.
- The nominal concentration of the permethrin product a.i. agrees with the label concentration, in accordance with the requirements of PR 91-2. The proposed 6/4/01 CSF identifies the a.i. as in column 10. The chemical name of the a.i., permethrin, must be as is listed on the label in the CSF, column 10, along with the purity of the permethrin.
- Column 11 of the proposed 5/18/01 CSF should give the full supplier name and address for all components in the label.

•	Guideline submissions for 830.1550 (Product Identity) and 830.1750 (Certified limits) do
	not satisfy 40CFR§158.155 and 158.175, respectively, because the study states the
	the CSF states the ai is Sunniland must provide a
	clear, consistent description of product identity and certified limits within their study
	and proposed CSF.

- Guideline 830.1600 (Beginning Materials) and Guideline 830.1620 (Formulation Process) must be provided. Data given in the study must be consistent with the proposed CSF.
- Guideline requirements withing 830.6317 (Storage Stability) and 830.6320 (Corrosion Characteristics) are expected to satisfy the requirements for the Permethrin 0.25% Insecticide Granules, when similarity between the Summiland product and the Aventis product is established.

SUBJI	PRODUCT CHEMISTRY REVIEW OF MP [ ] EP [X] DP BARCODE No.: D275563 REG./File Symbol: 9404-IT PRODUCT NAME: Permethrin 0.25% Insecticide Granules COMPANY: Sunniland Corp.
1.	Reviewer: Linda L. Kutney
2.	Company: Sunniland Corp.
3.	Type of Submission: Registration [X] Reregistration [] New [X] Resubmission [] Amendment [] "ME-TOO" [X] Alternate Formulation [] Experimental Use Permit [] Other (Specify)
4.  If now so	If "Me-TOO" Registration, this product is [X] is not [] similar or substantially similar to EPA's Reg. No.: ot, comment in Confidential Appendix A on the differences between the registered and ource, where applicable
CONF	IDENTIAL STATEMENT OF FORMULA
5. Ty	pe of formulation and the sources of active ingredients:  ● Non-integrated formulation system
6.	Clearance of intentionally added ingredients in the formulation for the intended use (indicate in the Confidential Appendix those that are not cleared; the PC Codes should be provided by the chemist on the CSF for those that are cleared):
6(a) Cle	Formulation intended for food use under 40CFR§180.1001:  • yes [] • no [X] • Some are cleared, others are not []  ared under list: • c[] • d[] • e[] Are there any limitations for use as an order 40CFR§180.1001?
	• yes [] • no [], If yes, specify
6(b)	Formulation intended for non-food use:  • yes [X] • no [] • Some are cleared, others are not []

## PRODUCT INGREDIENT SOURCE INFORMATION IS NOT INCLUDED

6(c)	Clearance by the FDA of certain formulations under 21CFR§170 to 199. Examples: (a) indirect food additives, such as food contact surface sanitizers; adhesives, coatings, paper and paperboard products that may contact food in packaging or holding; and (b) substances generally recognized as safe (GRAS).		
	• yes [] • no [] • Some are cleared, others are not [] If yes, the entire formulation is cleared under 21CFR§		
7. •	The density, pH, and flammability values given on the CSF are identical with those of GRN 830.7300(density), 830.7000(pH), and 830.6315(Flammability), respectively: yes [X] • no []		
8.	The nominal concentrations (NC) of the active ingredients and the upper and lower certified limits (UCL & LCL) are as follows:  % by weight		
· ·	Active ingredient(s)  NC UCL LCL		
	Permethrin, 0.25 0.28 0.225		
9.	The calculated NCs, based on the pure active ingredients (PAT), are identical to those of the label:  • yes [X] • no []		
10.	The certified limits are within the standard limits as per 40CFR§158.175 or are adequately explained if different:  • yes [X]  • no []		
PRO	DUCT LABEL		
11.	The chemical names of the active ingredients on the label are identical to those on the CSF: • yes [] • no [X]		
	proposed 6/4/01 CSF says only the column 10 for the ai, it also give the chemical name, permethrin, along with its purity.		
12.	The appropriate physical and chemical hazards statement regarding flammability or explosive characteristics of the product are given on the label:  • yes [] • no [] • not applicable [X]		
13.	The storage and disposal instructions for the pesticide and container are in compliance with PR Notice 84-1 for household use products or PR Notice 83-3 for all other uses:  • yes [X]  • no []		

### PRODUCT INGREDIENT SOURCE INFORMATION IS NOT INCLUDED

PRODUCT CHEMISTRY DATA (SERIES 830 Subgroup A & Subgroup B)

14. Chemical IDs/Manufacture/ Analytical Information New Guideline:830	Data Required Fulfilled	MRID No.
1550. Chemical Identity(CSF)	No Study states  CSF states  ai'is	452546-01 6/4/01 CSF
1600. Beginning Materials  1620. Formulation Process	Not provided, study lists different inerts than 6/4/01 CSF	452546-01 6/4/01 CSF
1750. Certified Limits (CSF)	No Study states  CSF states ai is & contains different inerts than 6/4/01 CSF	452546-01 6/4/01 CSF
1800. Enforcement of Analytical Method (required for integrated products & those of tox. concern)	Yes, already available for permethrin	
1900. Submittal of Samples (required for integrated products, those of tox. concern, and for nonintegrated products with interference, etc, method problems)	N/A	

15. Physical/Chemical Properties New Guideline No. 830	Data Required Fulfilled	Value or Qualitat. Descrip.	MRID No.
6302. Color (if required by PR 92-5)	Yes	tan	452546-01
6303. Physical State	Yes	granules	452546-01
6304. Odor (if required by PR 92-5)	Yes	earthy	452546-01

and the second			
6314. Oxidation Reduction Reaction	N/A		452546-01
6315. Flammability/Flame Extension	N/A	> 500 F	452546-01
6316. Explodability	Yes	Contains no explosive ingredienets	452546-01
6317. Storage Stability	Yes	Reported as stable product, acceptable due to me-too product stability	452546-01
6319. Miscibility	N/A	granule	452546-01
6320. Corrosion Characteristics	Yes	Reported as stable product, acceptable due to me-too product stability	452546-01
6321. Dielectric Breakdown Voltage	N/A	granule	452546-01
7000. pH	N/A	granule	452546-01
7100. Viscosity	N/A	granule	452546-01
7300. Density/Bulk Den.	Yes	29-32 lb/ft3	452546-01

NA = Not Applicable;